1999-528756/45 D21 E19 HENK 1998.03.13

HENKEL KGAA *DE 19810887-A1

1998.03.13 1998-1010887(+1998DE-1010887) *(1999.09.16)* A61K 7/09, 7/13

Keratin-reducing composition used in simultaneous permanent styling and dyeing of hair

C1999-155679

Addnl. Data: HOEFFKES H, BUETTNER R, MOELLER H, OBERKOBUSCH D

NOVELTY

A keratin-reducing composition for simultaneous permanent styling and dyeing of hair comprises a mercapto compound or a sulfite and a reactive carbonyl-type dye which is a (hetero)aromatic mono- or dialdehyde or -ketone (or an acetal semi-aminal or imine derivative), in aqueous solution.

DETAILED DESCRIPTION

An INDEPENDENT CLAIM is included for dyeing and styling of hair by treating with the above composition before or after mechanically styling the hair, followed by rinsing and fixing with an oxidant.

D(8-B5, 8-B6) E(6-H, 7-H, 10-A9A, 10-B2D1, 10-C4D2, 10-D1D, 10-E3, 31-P5)

USE

Simultaneous permanent styling and dyeing of hair, especially in yellow, brown, reddish and blueish shades.

EXAMPLE

Rolled hair strands were dyed in a gold-blond shade by applying a keratin-reducing composition for 30 minutes at 20°C, followed by rinsing with water and fixing with a 3% H_2O_2 solution for 30 minutes at 20°C, the keratin-reducing composition comprising 8 parts thioglycolic acid (reducing agent), 3 parts NH_4CO_3 (buffer), 0.8 parts Na salt of gluconaldehyde (active carbonyl compound), 1 part 2-aminomethyl-4-aminophenol (color intensifier), ammonia to adjust the pH and water to make up to 100 parts.

TECHNOLOGY FOCUS

Organic Chemistry - Preferred Composition: The composition has an aqueous or aqueous/alcohol carrier and comprises (by wt.) 2-20% salt or ester of thioglycolic- or thiolactic-acid and 0.5-5% activated carbonyl compound. Optionally also present are:

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(i) an aminoacid or peptide, an aromatic amine, a phenol, an aminophenol or an N-containing heterocyclic compound, especially 0.01-5% aromatic amine or aminophenol;
(ii) a surfactant and a buffer salt; and/or
(iii) a styling-reinforcing additive such as imidazole or 2-ethylhexane-1,3-diol.

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